

MATERIAL SAFETY DATA SHEET
U.S. DEPARTMENT OF LABOR - OSHA'S HAZARD COMMUNICATION STANDARD
(Utilized to comply with 29 CFR 1910.1200)

SECTION 1 - PRODUCT/MANUFACTURER/DISTRIBUTOR'S IDENTITY

Product Name: **STONEGUARD**

Product Use: Penetrating Sealer for Natural Stone

Date Prepared: November 1997

Date Last Revision: June 2001

DOT Hazard Class: Consumer Commodity (ORM-D) < 5-GL &
Class 3 for > 5-GL containers during
Ground Transportation Only

H.M.I.S. Rating

2 - Health

2 - Fire

0 - Reactivity

B - Maximum Personal
Protection

Rating Key

4=Extreme

3=High

2=Moderate

1=Slight

0=Insignificant

Manufactured For:

Stone Care International, Inc.

P.O. Box #703

Owings Mills, Maryland 21117-0703

Phone: 410-363-8788

24 Hour Response for Medical and Spill Emergencies call: 1-800-535-5053.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Chemical Identity</u>	<u>CAS No.</u>	<u>%</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>	<u>LD50</u>	<u>LC50</u>
Mineral Spirits	8052-41-3	≥ 80.00	100 ppm TWA	100 ppm TWA		
Acrylic Resin (Containing the following Hazardous Components)		≤ 20.00				
Isobutyl Methacrylate	97-86-9	N.A.	N.E.	N.E.		
Petroleum Ether	8032-32-4	N.A.	200 ppm 300 ppm			
N-Butyl Acetate	123-86-4	N.A.	Unknown Unknown			

This formula is a proprietary mixture with no other known hazardous ingredients. NJTSR # 0040 VOC Content: <10 g/L

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Color: Clear Odor: Hydrocarbon/Solvent Physical State: Liquid PH: N.A.
Boiling Point: 315 - 394° F Freezing Point: 1° F Melting Point: 1° F % Volatile: 90%
Vapor Pressure (mm HG): 2mm @ 68° F; 6mm @ 100° F Vapor Density (Air = 1): 4.0 est. Specific Gravity (H₂O = 1): 0.80 @ 60
Evaporation Rate (n-butyl Acetate = 1): < 1.1 Solubility in Water: < 0.01 @ 77° F Specific Gravity of Vapor @ 1 atm (Air = 1): 3.50 Calculated

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: 104° F (Closed Cup) Flammable Limits: N.A. Auto-ignition Temperature: 490° F EST.

Explosive Limits in Air @ 77° F: LEL: 2.1 UEL: 13.3

Sensitivity to Mechanical Impact: Yes, if any type of spark or electrical discharge will be created.

Sensitivity to Static Charge: Yes, ground all electrical equipment before using with this product.

Extinguishing Media: Use water spray or water fog, foam, dry-chemical or CO₂ materials. DO NOT USE A DIRECT STREAM OF WATER as product is lighter than water, will float, and can be re-ignited on the surface of the water.

Special Fire Fighting Procedures: **COMBUSTIBLE LIQUID** - Wear NIOSH approved self-contained breathing apparatus in positive pressure mode. DO NOT enter confined space without full bunker gear, helmet with full-face shield, bunker coats, gloves and rubber boots. ISOLATE FUEL SUPPLY from fire.

Unusual Fire and Explosion Hazards: **COOL CONTAINERS EXPOSED TO INTENSE HEAT** from fires with water to prevent vapor pressure build-up, which can result in container rupture and scattering of flammable materials. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. AVOID SPRAYING WATER DIRECTLY INTO STORAGE CONTAINER DUE TO DANGER OF BOIL OVER.

Decomposition Products Resulting from Fire Conditions: None Unusual Known

General Hazard Information: This product is a combustible liquid that can form combustible mixtures at temperatures at or above the flashpoint. Additionally, this material can accumulate static charges, which can cause an incendiary electrical discharge. EMPTY CONTAINER CONTAINS PRODUCT RESIDUE (LIQUID &/OR VAPOR) THAT CAN BE DANGEROUS. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioning facility or disposed of properly in accordance with local and federal statutes. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION - THEY MAY EXPLODE AND CAUSE INJURY OR EVEN DEATH.

THE LIQUID IS VOLATILE AND GIVES OFF VAPORS. EITHER THE LIQUID OR VAPORS MAY SETTLE IN LOW AREAS OR TRAVEL SOME DISTANCE ALONG THE GROUND OR SURFACE TO IGNITION SOURCES, WHERE THEY MAY IGNITE OR EXPLODE.

Continued on Next Page

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable (Yes) Incompatibility (Materials to Avoid): Halogens, molten sulfur, strong oxidizing agents, strong acids and select amines.
Hazardous Decomposition of By-Products: Carbon Monoxide (CO) and unidentified organic compounds may be formed.
Hazardous Polymerization: Will not occur

Conditions To Avoid: **KEEP AWAY FROM ALL SOURCES OF IGNITION**

SECTION 6 - HEALTH HAZARD DATA/TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion, Skin Contact, Inhalation, Eye Contact Sensitization: None Toxicologically Synergistic Products: None Known
Carcinogenicity: None Known Teratogenicity: None Known Mutagenicity: None Known Reproductive Toxicity: None Known

Medical Conditions Aggravated by Exposure: Respiratory, Pulmonary Liver and Kidney as well as Central Nervous System (CNS) and Gastrointestinal (Stomach) Disorders.

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):

Ingestion: **HARMFUL IF SWALLOWED.** Causes vomiting, nausea, diarrhea, irritation of the digestive tract, drowsiness, dizziness or loss of coordination. Can enter lungs during swallowing or vomiting and cause lung inflammation and/or damage.

Skin: Mild irritation, drying of the skin, redness or burning sensation; May cause allergic skin reaction or dermatitis may occur from repeated or excessive contact. Low order of toxicity.

Eyes: Severe irritation or burning sensation; Discomfort may occur from direct contact or vapors.

Inhalation: **HARMFUL IF INHALED.** Prolonged or excessive inhalation of vapors or aerosol concentrations (greater than 1000 ppm) can cause Dizziness, Loss of Coordination, Headaches, Irritation or Burns to the respiratory tract that may not be immediately visible or painful. Can cause Central Nervous System (CNS) depression leading to unconsciousness or death

EMERGENCY FIRST AID PROCEDURES - NOTE TO PHYSICIANS

Ingestion: **DO NOT INDUCE VOMITING.** If individual is conscious, drink 3-4 large glasses of water followed by mineral oil or egg whites. NEVER GIVE FLUIDS BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL IMMEDIATELY.

Skin: Flush with a large amount of water for at least 15-20 minutes. Remove contaminated clothing. Wash with a gentle soap and water, paying particular attention to under the fingernails. Get immediate medical attention, if irritation or burning sensation persists. Wash clothing before reuse.

Eyes: Flush with large amounts of water for at least 20 minutes holding eyelids open. If discomfort or irritation persists, seek medical attention immediately.

Inhalation: If affected, remove individual to fresh air. If breathing is difficult or symptoms persist, seek medical attention immediately. Qualified personnel can give artificial respiration, utilizing proper personal protective measures, if breathing has stopped.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Ventilate the area. Remove or eliminate potential sources of ignition. Wear proper Personal Protective Equipment. Contain the spill by building a dike using inert absorbent material. Collect the remainder of the spill with inert absorbent material, scoop up material using non-sparking tools (plastic or other applicable material) and place into a waste disposal container. Flush area with water. Drain to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow draining into public waterways.

Waste Disposal: Dispose of as permitted by methods in accordance with applicable laws of all federal, provincial, state and local regulatory authorities.

Precautions to Be Taken in Handling & Storage: **Keep out of the reach of children and animals. Keep Away from Food and Feedstuffs.** Store upright in a cool, dry, well-ventilated area out of direct sunlight. Do not expose to freezing conditions, less than or equal to 32° F, or heat above 110° F. Keep caps or drum bungs sealed tightly when not immediately in use. Utilize proper grounding procedures during storage or product transfer operations. Keep all storage doors locked. Empty containers will contain vapor and product residue that is potentially combustible - DO NOT REUSE CONTAINERS WITHOUT PROPER COMMERCIAL CLEANING OR RECONDITIONING. ELECTROSTATIC ACCUMULATION HAZARD EXISTS - PROPER CAUTION SHOULD BE USED.

SECTION 8 - CONTROL MEASURES

Respiratory Protection: Use in well-ventilated areas only, open all doors and windows. Use a local or mechanical exhaust system if available to remove vapors. Avoid prolonged or repeated breathing or vapors. If overexposure potential exists or exposure levels are likely to exceed the TLV or PEL limits, a NIOSH/MSHA approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134 is required in the absence of proper environmental control.

Protective Gloves: Use only with natural rubber, Nitrile, or other chemical resistant gloves. Have water available to rinse off skin after contact with product.

Protective Clothing and Equipment: Use impervious natural rubber to prevent clothes from getting wet.

Eye Protection: Splash proof goggles or glasses with side shields should be used for any type of handling. Eye Wash station should be readily available.

Hygienic and Work Practices: Use common sense and care around chemicals. Never mix chemical products. Wash hands with gentle soap and water after each use. Air dry and wash contaminated clothing before re-use. **Keep out of reach of children and animals. Keep Away from Food and Feedstuffs.**

SECTION 9 - DOMESTIC & INTERNATIONAL SHIPPING INFORMATION:

Domestic Transportation Information

DOT Shipping Name: **ORM-D (Consumer Commodity)** for less than 5-gallon containers during ground transportation only;

Petroleum Distillates, N.O.S. for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments

DOT Hazard Class: **Flammable Liquid - Class 3** for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments

UN/NA Number: **UN 1268** for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments

Packing Group Number (PG): **III** for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments

International Transportation Information: Same as above, except that ORM-D exemptions and quantity limitations are not recognized

Shipping Name: *Petroleum Distillates, N.O.S.* IMDG Page Number: 3375

Hazard Class: 3.3 (*Flammable Liquid*) EmS Number: 3-07

UN Number: *UN 1268* MFAG Table No.: 311

Packing Group Number (PG): *III*

Note: Package labeling required for shipments containing single 5 gallon or larger containers and placarding for shipments exceeding 1,001 lbs

SECTION 10 – REGULATORY INFORMATION:

TSCA: All chemical components incorporated into this product are found on the TSCA Inventory List

CERCLA: *

SARA TITLE III(311/312 Hazard Categories): *

SARA TITLE III (313 Reportable Ingredients): *

CALIFORNIA PROPOSITION 65: *

EPA HAZARD WASTE CLASSIFICATION: *D001, Ignitable Waste*

*** THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US (INCLUDING THAT PROVIDED BY THE MANUFACTURER AND IS BELIEVED TO BE CORRECT. THE INFORMATION RELATES TO THIS SPECIFIC PRODUCT - IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. HOWEVER, STONE CARE INTERNATIONAL, INC. (SCI) MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. SUCH DATA ARE OFFERED SOLELY FOR CONSIDERATION, INVESTIGATION AND VERIFICATION. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS/HER OWN PARTICULAR USE. SCI ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

(Abbreviation Key: N.A. = Not Applicable, N.E. = Not Established, N.D. = Not Determined. * Where no corresponding data was contained in the manufacturer's MSDS, additional research is required and may be obtained upon request)

MATERIAL SAFETY DATA SHEET
U.S. DEPARTMENT OF LABOR - OSHA'S HAZARD COMMUNICATION STANDARD
(Utilized to comply with 29 CFR 1910.1200)

SECTION 1 - PRODUCT/MANUFACTURER/DISTRIBUTOR'S IDENTITY

Product Name: CLEAN ENCOUNTERS Product Use: Solid Surface Spray Cleaner Date Prepared: June 1995 Date Last Revision: November 2001 DOT Hazard Class: NONE / Non-Regulated	<u>H.M.I.S. Rating</u> 1 - Health 0 - Fire 0 - Reactivity B - Maximum Personal Protection	<u>Rating Key</u> 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
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Stone Care International, Inc.
P.O. Box #703
Owings Mills, Maryland 21117-0703
Phone: 410-363-8788
24 Hour Response for Medical and Spill Emergencies call: 1-800-535-5053.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Chemical Identity</u>	<u>CAS No.</u>	<u>%</u>	<u>PEL</u>	<u>TLV</u>	<u>LD50</u>	<u>LC50</u>
Water	7732-18-5	60-90	N.E.	N.E.	N.D.	N.D.
Nonionic Surfactants	9036-19-5	1-20	N.E.	N.E.	N.D.	N.D.
Sodium Xylene Sulfonate	1300-72-7	1-5	N.E.	N.E.	N.D.	N.D.
Chelating Agents	64-02-8	1-5	N.E.	N.E.	4100mg/kg	N.D.
Fragrance	N/A	1	N.E.	N.E.	N.D.	N.D.
Cationic Surfactants	N/A	< 1	N.E.	N.E.	N.D.	N.D.

This formula is a proprietary mixture that does not contain hazardous ingredients. NJTSRN#0030 VOC Content: N.E.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Color: Clear	Odor: Slight Citrus	Boiling Point: 212°F/100°C	Freezing Point: 32°F/0°C	Physical State: Liquid	PH: 8.0
Vapor Pressure (mm HG): <30	Vapor Density (Air+1): <1	Specific Gravity: 1.04	Evaporation Rate (Water=0.3): <0.4		
Solubility in Water: 100 %					

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N.A. Flammable Limits: N.A. Hazardous Combustion Products: N.A. Autoignition Temperature: N.A.
LEL: N.A. UEL: N.A.
Extinguishing Media: Use a media that will extinguish the primary cause of fire (Alcohol Foam, CO2, Dry Chemical, Foam, Water Fog, Powders).
Special Fire Fighting Procedures: None **Unusual Fire and Explosion Hazards:** None

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable (Yes) Incompatibility (Materials to Avoid): None Known Hazardous Decomposition of By-Products: None Known
Hazardous Polymerization: Will Not Occur Conditions To Avoid: None Applicable

SECTION 6 - HEALTH HAZARD DATA/TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion, Skin & Eye Contact	Sensitization: None Known	Toxicologically Synergistic Products: None Known
Carcinogenicity: None Known Teratogenicity: None Known	Mutagenicity: None Known	Reproductive Toxicity: None Known
Medical Conditions Aggravated by Exposure: None Known		

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):

Ingestion: May cause gastrointestinal discomfort nausea, and diarrhea
Skin: Irritation may occur from repeated or excessive contact
Eyes: Discomfort or irritation may occur from direct contact.
Inhalation: Not considered a route of entry - None Known

EMERGENCY FIRST AID PROCEDURES - NOTE TO PHYSICIANS

Ingestion: If individual is conscious, Drink 2-3 large glasses of water or milk. (NEVER GIVE ANY FLUIDS BY MOUTH TO AN UNCONSCIOUS PERSON)
CONTACT MEDICAL ASSISTANCE IMMEDIATELY
Skin: Rinse affected area with large amount of water. Wash with gentle soap.
Eyes: Rinse with a large amount of water for at least 15-20 minutes. Hold eyelids open to obtain best rinse results. If irritation persists, contact medical assistance.
Inhalation: N/A

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CLEAN ENCOUNTERS MSDS – Page 2

SECTION 7– PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Collect and re-use if material is free from dirt. Drain to sewer with large quantities of water, if permitted by regulatory authorities OR absorb with an inert material (sand, clay, cat litter, etc.) and place into a container for proper disposal. DO NOT allow draining into public waterway.

Waste Disposal: Dispose of, as permitted, by all methods in accordance with local, state, provincial, or federal regulatory authority or laws.

Precautions to Be Taken in Handling & Storage: Keep out of the reach of children and animals. Store in a cool, dry area. Tighten all bottle caps. Keep upright and lock all storage containers.

SECTION 8 – CONTROL MEASURES

Respiratory Protection: No special requirements. Always assure adequate ventilation with any chemical usage.

Protective Gloves: Use rubber or other waterproof gloves to protect skin.

Protective Clothing and Equipment: Use rubber or other waterproof covering to prevent clothes from getting wet.

Eye Protection: Safety glasses or goggles recommended to prevent contact with eyes.

Hygienic and Work Practices: Provide for good general ventilation of work areas where product is used. Wash thoroughly after use.

SECTION 9 – DOMESTIC & INTERNATIONAL SHIPPING INFORMATION: NON-REGULATED / NON-HAZARDOUS

Domestic Transportation Information

DOT Shipping Name: N.A.

DOT Hazard Class: N.A.

UN/NA Number: N.A.

Packing Group Number (PG): N.A.

International Transportation Information: SAME AS ABOVE

Shipping Name: IMDG Page Number: N.A.

Hazard Class: EmS Number: N.A.

UN Number: MFAG Table No.: N.A.

Packing Group Number (PG):

SECTION 10 – REGULATORY INFORMATION:

TSCA: N.A.

CERCLA: N.A.

SARA TITLE III(311/312 Hazard Categories): N.A.

SARA TITLE III (313 Reportable Ingredients): Product mixture DOES NOT contain any components that are subject to this reporting requirement

CALIFORNIA PROPOSITION 65: N.A.

EPA HAZARD WASTE CLASSIFICATION: N.A.

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MATERIAL SAFETY DATA SHEET
U.S. DEPARTMENT OF LABOR - OSHA'S HAZARD COMMUNICATION STANDARD
(Utilized to comply with 29 CFR 1910.1200)

Product Name & Manufacturers Identity

COUNTERIFFIC®

Stone Care International, Inc.
P.O. Box 703
Owings Mills, MD 21117
1-800-839-1654 410-783-0045

H.M.I.S. Rating

Health: 1
Flammability: 1
Reactivity: 0

For Medical Emergencies, call Infotrac at 1-800-535-5053
For International Emergencies, call 1-352-323-3500

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MATERIAL

READY TO USE
DISINFECTANT AND SANITIZER

DOT HAZARD CLASSIFICATION

Non-hazardous

DOT SHIPPING NAME

Not regulated

DOT LABEL

None

DATE ISSUED: 6/2001

DATE OF LAST REVISION: 9/2002

FORMULA Mixture

CAS. NO. Mixture

CHEMICAL NAME (Active) mixture of N,N-Dialkyl-N,N-dimethylammonium Chloride and
N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride

***** I - INGREDIENTS *****

APPROXIMATE

WEIGHT % TWA/TLV

N,N-Dialkyl(C ₈₋₁₀)-N,N-dimethylammonium Chloride (CAS No. 68424-95-3)	0.028	None established
N-Alkyl(C ₁₂₋₁₆)-N,N-dimethyl-N-benzylammonium Chloride (CAS No. 68424-85-1)	0.018	None established
Water (CAS No. 7732-18-5)	99.9	None established

***** II - PHYSICAL AND CHEMICAL PROPERTIES *****

APPEARANCE Clear liquid, color depends
on optional dye added

pH 6.4

ODOR Slightly sweet

VISCOSITY 0.66 Cst @ 20°C

MELTING OR FREEZING POINT 0°C

BOILING POINT 100°C

VAPOR PRESSURE (mm Hg) Not known

VAPOR DENSITY (Air=1) Not known

SPECIFIC GRAVITY (Water=1) 1.0 @ 25°C

PERCENT VOLATILE (by weight) 99.9

SOLUBILITY IN WATER Soluble

EVAPORATION RATE (Butyl Acetate=1) Not known

***** III - FIRE AND EXPLOSION INFORMATION *****

FLASH POINT >200°F

AUTO IGNITION TEMPERATURE Not known

LOWER EXPLOSION LIMIT (%) Not applicable

UPPER EXPLOSION LIMIT (%) Not applicable

EXTINGUISHING MEDIA FOAM

ALCOHOL FOAM X CO₂ X

DRY CHEMICAL X

WATER X

OTHER

SPECIAL FIRE FIGHTING PROCEDURES:

Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.
Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic

COUNTERIFFIC®

PAGE 2 OF 5

***** IV - HEALTH EFFECTS INFORMATION *****

ROUTES OF ENTRY - SKIN CONTACT X EYE CONTACT X
INHALATION X INGESTION

EFFECTS OF OVEREXPOSURE

No human overexposure information found for this material. Based upon the available toxicity information for related materials, it is anticipated that direct contact will produce very mild to essentially no eye or skin irritation.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS: No effects indicated.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush eyes with large amounts of running water for several minutes. Seek medical attention if irritation develops.

Skin: Wash affected areas with plenty of water and soap, if available, for several minutes. Seek medical attention if irritation develops.

Ingestion: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.

Inhalation: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

CHEMICALS LISTED AS CARCINOGENIC BY:

NATIONAL TOXICOLOGY PROGRAM - No
I.A.R.C. MONOGRAPHS - No
OSHA - No

***** V - REACTIVITY INFORMATION *****

STABILITY: STABLE: Yes UNSTABLE CONDITIONS TO AVOID: None known

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
MAY OCCUR	WILL NOT OCCUR X	None known

INCOMPATIBILITY (MATERIALS TO AVOID)

WATER	OTHER X	Strong oxidizing or reducing agents.
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***** VI - SPILL AND DISPOSAL INFORMATION *****

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Caution! Floors may become slippery. Wear appropriate protective equipment and respiratory protection where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHODS

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

***** VII - PERSONAL PROTECTION INFORMATION *****

ENGINEERING CONTROL

In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

RESPIRATORY PROTECTION

In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

PROTECTIVE GLOVES

Rubber or neoprene, when needed to prevent skin contact.

EYE PROTECTION

Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

OTHER PROTECTIVE EQUIPMENT

Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), to prevent skin contact.

***** VIII - STORAGE AND HANDLING *****

PRECAUTIONS FOR STORAGE AND HANDLING:

Maximum storage temperature: 140°F. Keep containers closed not in use.
Do not contaminate drinking water, food or feed by storage or disposal.

***** IX - TOXICOLOGY INFORMATION *****

TOXICITY

No toxicity information is available for this specific material. The toxicity information provided is for ready-to-use dilutions of different EPA FIFRA registered formulations, R-82, S-21, and S-38, each diluted to produce concentrations between 600 ppm and 850 ppm of the same actives, Dialkyldimethylammonium chloride and Alkyldimethylbenzylammonium chloride, in the identical ratio.

ACUTE

For Stone Care International Formulation R-82, diluted 1:256 (850 ppm actives blend):

- skin irritation (rabbit): Essentially non-irritating.

For Stone Care International Formulation S-21, diluted 1:64 (850 ppm actives blend):

- eye Irritation (rabbit): Not an irritant with or without washing.

- skin irritation (rabbit): Non-irritant.

For Stone Care International Formulation S-38, diluted 1:64 (600 ppm actives blend):

- eye Irritation (rabbit): essentially non-irritant with or without washing.

- skin irritation (rabbit): Non-irritant.

***** X - MISCELLANEOUS AND REGULATORY INFORMATION *****

FEDERAL REGULATIONS:**TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:**

This product is currently listed on the EPA TSCA 8(b) inventory list.

TSCA Section 12(b) Export Notification

Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

***** X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) *****

EPA REGULATION ON PESTICIDES

This is an EPA FIFRA registered pesticide (EPA Registration No. 6836-289-67967). This material can only be used in the EPA registered application(s) noted on the product label.

US FDA REGULATION ON FOODS - This product is regulated under the following section(s) of the Code of Federal Regulations (CFR) when used in permitted food contact applications:
21 CFR 178.1010

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization act of 1986) - This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the Components in 40 CFR 355:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Hazard *) Categories</u>
N,N-Dialkyl-N,N-dimethylammonium Chloride	68424-95-3	A
N-Alkyl-N,N-dimethyl-N-benzylammonium Chloride	68424-85-1	A

*) The five hazard categories are as follows: F= FIRE HAZARD; S= SUDDEN RELEASE OF PRESSURE; R= REACTIVE; A= IMMEDIATE (ACUTE) HEALTH HAZARD; C= DELAYED (CHRONIC) HEALTH HAZARD

SARA Title III Section 313 - This act requires submission of annual reports off the releases of the following components of this material if the threshold reporting quantities as listed in 40 CFR 372, are met or exceeded:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

***** X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) *****

STATE RIGHT-TO-KNOW REGULATIONS:

CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:

AS A CANCER HAZARD

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Acetaldehyde	75-07-0	1 ppb
Benzene	71-43-2	50 ppb
Benzyl Chloride	100-44-7	15 ppb
N-Nitrosodimethylamine	62-75-9	0.5 ppb
Propylene Oxide	75-56-9	0.9 ppb

AS A REPRODUCTIVE HAZARD

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Benzene	71-43-2	50 ppb
Toluene	108-88-3	50 ppb

MASSACHUSETTS Right-to-Know - The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

MICHIGAN Critical Materials - The following components of this material are included in the Michigan Critical Materials List:

<u>Chemical Name</u>	<u>CAS Number</u>
None known	

NEW JERSEY Right-to-Know - The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

PENNSYLVANIA Right-to-Know - The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

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(Abbreviation Key: N.A. = Not Applicable, N.E. = Not Established, N.D. = Not Determined, * Where no corresponding data was contained in the manufacturer's MSDS, additional research is required and may be obtained upon request)

MATERIAL SAFETY DATA SHEET
U.S. DEPARTMENT OF LABOR - OSHA'S HAZARD COMMUNICATION STANDARD
(Utilized to comply with 29 CFR 1910.1200)

SECTION 1 - PRODUCT/MANUFACTURER/DISTRIBUTOR'S IDENTITY

Product Name: INTERNATIONAL STONE POLISH	<u>H.M.I.S. Rating</u>	<u>Rating Key</u>
Product Use: Protective Stone Polish	2- Health	4=Extreme
Date Prepared: November 1997	2 - Fire	3=High
Date of Last Revision: July 2001	0 - Reactivity	2=Moderate
DOT Hazard Class: Consumer Commodity (ORM-D) < 5-GL &	B - Maximum Personal Protection	1=Slight
Class 3 for > 5-GL containers during Ground Transportation Only		0=Insignificant

Stone Care International, Inc.
P.O. Box 703
Owings Mills, MD 21117-0703
Phone: 410-363-8788

24 Hour Response for Medical and Spill Emergencies call: 1-800-535-5053.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Chemical Identity</u>	<u>CAS No.</u>	<u>%</u>	<u>PEL (OSHA)</u>	<u>TLV(ACGIH)</u>	<u>LD50</u>	<u>LC50</u>
Odorless Mineral Spirits	64742-48-9	75 - 90	100 ppm TWA	100 ppm TWA		
DiMethyl Polysiloxanes	63148-62-9	6 - 15	Unknown	Unknown		
Natural &/or Synthetic Waxes	N/A	5 - 10	Unknown	Unknown		

This formula is a proprietary mixture with no other known hazardous ingredients.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Color: Opaque/Tan	Odor: Mild Solvent	Physical State: Thick Liquid	PH: N.A.
Boiling Point: 354 - 372° F	Freezing Point: -76° F	Melting Point: -76° F	% Volatile: 90%
Vapor Pressure (mm HG): 1mm @ 68° F; 3mm @ 100° F		Vapor Density (Air = 1): 5.7	Specific Gravity (H ₂ O = 1): 0.82 @ 60
Evaporation Rate (n-butyl Acetate = 1): < 0.1		Solubility in Water: < 0.01 @ 77° F	Specific Gravity of Vapor @ 1 atm (Air = 1): 5.40 Calculated

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: 130° F (Closed Cup)	Flammable Limits: N.A.	Auto-ignition Temperature: 460° F EST.
Explosive Limits in Air @ 77° F:	LEL: 1.3	UEL: 9.8

Sensitivity to Mechanical Impact: Yes, if any type of spark or electrical discharge will be created.
Sensitivity to Static Charge: Yes, ground all electrical equipment before using with this product.

Extinguishing Media: Use water spray or water fog, foam, dry-chemical or CO₂ materials. DO NOT USE A DIRECT STREAM OF WATER as product is lighter than water, will float, and can be re-ignited on the surface of the water.

Special Fire Fighting Procedures: **COMBUSTIBLE LIQUID** - Wear NIOSH approved self-contained breathing apparatus in positive pressure mode. DO NOT enter confined space without full bunker gear, helmet with full-face shield, bunker coats, gloves and rubber boots. ISOLATE FUEL SUPPLY from fire.

Unusual Fire and Explosion Hazards: **COOL CONTAINERS EXPOSED TO INTENSE HEAT** from fires with water to prevent vapor pressure build-up, which can result in container rupture and scattering of flammable materials. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. AVOID SPRAYING WATER DIRECTLY INTO STORAGE CONTAINER DUE TO DANGER OF BOIL OVER.

Decomposition Products Resulting from Fire Conditions: None Unusual Known

General Hazard Information: This product is a combustible liquid that can form combustible mixtures at temperatures at or above the flashpoint. Additionally, this material can accumulate static charges, which can cause an incendiary electrical discharge. EMPTY CONTAINER CONTAINS PRODUCT RESIDUE (LIQUID &/OR VAPOR) THAT CAN BE DANGEROUS. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioning facility or disposed of properly in accordance with local and federal statutes. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION - THEY MAY EXPLODE AND CAUSE INJURY OR EVEN DEATH.

THE LIQUID IS VOLATILE AND GIVES OFF VAPORS. EITHER THE LIQUID OR VAPORS MAY SETTLE IN LOW AREAS OR TRAVEL SOME DISTANCE ALONG THE GROUND OR SURFACE TO IGNITION SOURCES, WHERE THEY MAY IGNITE OR EXPLODE.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable (Yes) Incompatibility (Materials to Avoid): Halogens, strong oxidizing agents
Hazardous Decomposition of By-Products: Carbon Monoxide (CO) and unidentified organic compounds may be formed when combustion is incomplete.
Hazardous Polymerization: Will not occur
Conditions To Avoid: **KEEP AWAY FROM ALL SOURCES OF IGNITION**

SECTION 6 - HEALTH HAZARD DATA/TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion, Skin Contact, Inhalation, Eye Contact Sensitization: None Toxicologically Synergistic Products: None Known
Carcinogenicity: None Known Teratogenicity: None Known Mutagenicity: None Known Reproductive Toxicity: None Known
Medical Conditions Aggravated by Exposure: Respiratory, Pulmonary Liver and Kidney as well as Central Nervous System (CNS) and Gastrointestinal (Stomach) Disorders.

Continued on Next Page

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):

Ingestion: **HARMFUL IF SWALLOWED.** Causes vomiting, nausea, diarrhea, irritation of the digestive tract, drowsiness, dizziness or loss of coordination. Can enter lungs during swallowing or vomiting and cause lung inflammation and/or damage.

Skin: Mild irritation, drying of the skin, redness or burning sensation; May cause allergic skin reaction or dermatitis may occur from repeated or excessive contact. Low order of toxicity.

Eyes: Severe irritation or burning sensation; Discomfort may occur from direct contact or vapors.

Inhalation: **HARMFUL IF INHALED.** Prolonged or excessive inhalation of vapors or aerosol concentrations (greater than 1000 ppm) can cause Dizziness, Loss of Coordination, Headaches, Irritation or Burns to the respiratory tract that may not be immediately visible or painful. Can cause Central Nervous System (CNS) depression leading to unconsciousness or death

EMERGENCY FIRST AID PROCEDURES - NOTE TO PHYSICIANS

Ingestion: **DO NOT INDUCE VOMITING.** If individual is conscious, drink 3-4 large glasses of water followed by mineral oil or egg whites. NEVER GIVE FLUIDS BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL TREATMENT IMMEDIATELY.

Skin: Flush with a large amount of water for at least 15-20 minutes. Remove contaminated clothing. Wash with a gentle soap and water, paying particular attention to under the fingernails. Get immediate medical attention, if irritation or burning sensation persists. Wash clothing before reuse.

Eyes: Flush with large amounts of water for at least 20 minutes holding eyelids open. If discomfort or irritation persists, seek medical attention immediately.

Inhalation: If affected, remove individual to fresh air. If breathing is difficult or symptoms persist, seek medical attention immediately. Qualified personnel can give artificial respiration, utilizing proper personal protective measures, if breathing has stopped.

SECTION 7- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Ventilate the area. Remove or eliminate potential sources of ignition. Wear proper Personal Protective Equipment. Contain the spill by building a dike using inert absorbent material. Collect the remainder of the spill with inert absorbent material, scoop up material using non-sparking tools (plastic or other applicable material) and place into a waste disposal container. Flush area with water. Drain to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow draining into public waterways.

Waste Disposal: Dispose of as permitted by methods in accordance with applicable laws of all federal, provincial, state and local regulatory authorities.

Precautions to Be Taken in Handling & Storage: *Keep out of the reach of children and animals. Keep Away from Food and Feedstuffs.* Store upright in a cool, dry, well-ventilated area out of direct sunlight. Do not expose to freezing conditions, less than or equal to 32° F, or heat above 110° F. Keep caps or drum bungs sealed tightly when not immediately in use. Utilize proper grounding procedures during storage or product transfer operations. Keep all storage doors locked. Empty containers will contain vapor and product residue that is potentially combustible – DO NOT REUSE CONTAINERS WITHOUT PROPER COMMERCIAL CLEANING OR RECONDITIONING. ELECTROSTATIC ACCUMULATION HAZARD EXISTS – PROPER CAUTION SHOULD BE USED.

SECTION 8 – CONTROL MEASURES

Respiratory Protection: Use in well-ventilated areas only, open all doors and windows. Use a local or mechanical exhaust system if available to remove vapors. Avoid prolonged or repeated breathing or vapors. If overexposure potential exists or exposure levels are likely to exceed the TLV or PEL limits, a NIOSH/MSHA approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134 is required in the absence of proper environmental control.

Protective Gloves: Use only with natural rubber, Nitrile, or other chemical resistant gloves. Have water available to rinse off skin after contact with product.

Protective Clothing and Equipment: Use impervious natural rubber to prevent clothes from getting wet.

Eye Protection: Splash proof goggles or glasses with side shields should be used for any type of handling. Eye Wash station should be readily available.

Hygienic and Work Practices: Use common sense and care around chemicals. Never mix chemical products. Wash hands with gentle soap and water after each use. Air dry and wash contaminated clothing before re-use. *Keep out of reach of children and animals. Keep Away from Food and Feedstuffs.*

SECTION 9 – DOMESTIC & INTERNATIONAL SHIPPING INFORMATION:

Domestic Transportation Information

DOT Shipping Name: **ORM-D (Consumer Commodity)** for less than 5-gallon containers during ground transportation only;
Petroleum Distillates, N.O.S. for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments
DOT Hazard Class: **Flammable Liquid – Class 3** for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments
UN/NA Number: **UN 1268** for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments
Packing Group Number (PG): **III** for quantities of 5 gallons or more during ground transportation and for all quantities during air shipments

International Transportation Information: Same as above, except that ORM-D exemptions and quantity limitations are not recognized

Shipping Name:	Petroleum Distillates, N.O.S.	IMDG Page Number:	3375
Hazard Class:	3.3 (Flammable Liquid)	EmS Number:	3-07
UN Number:	UN 1268	MFAG Table No.:	311
Packing Group Number (PG):	III		

Note: Package labeling required for shipments containing single 5 gallon or larger containers and placarding for shipments exceeding 1,001 lbs

SECTION 10 – REGULATORY INFORMATION:

TSCA: All chemical components incorporated into this product are found on the TSCA Inventory List

CERCLA: *

SARA TITLE III(311/312 Hazard Categories): *

SARA TITLE III (313 Reportable Ingredients): *

CALIFORNIA PROPOSITION 65: *

EPA HAZARD WASTE CLASSIFICATION: **D001, Ignitable Waste**

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